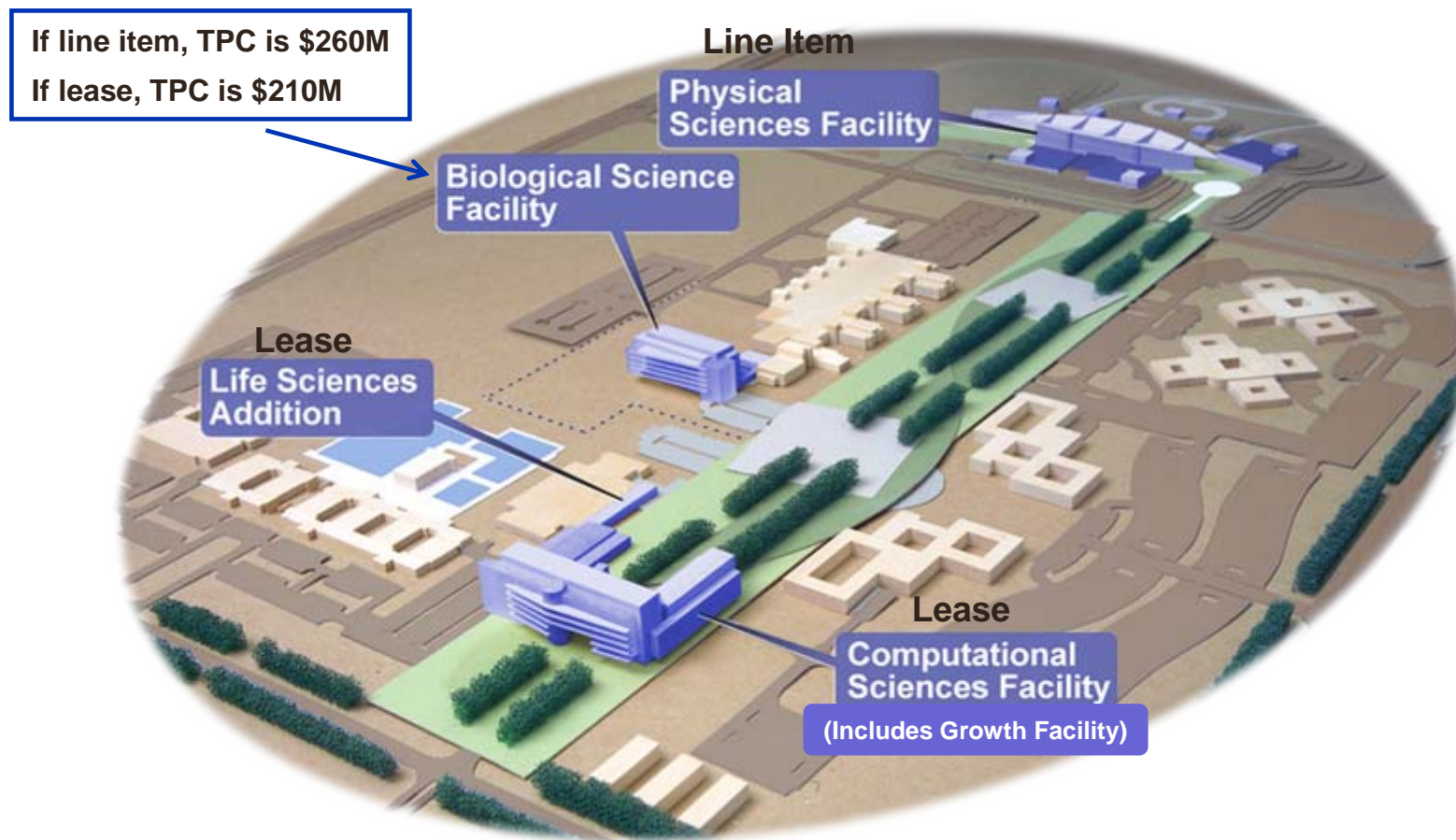




# Capability Replacement Laboratories (CRL) Project





## Details on Major Facilities

---

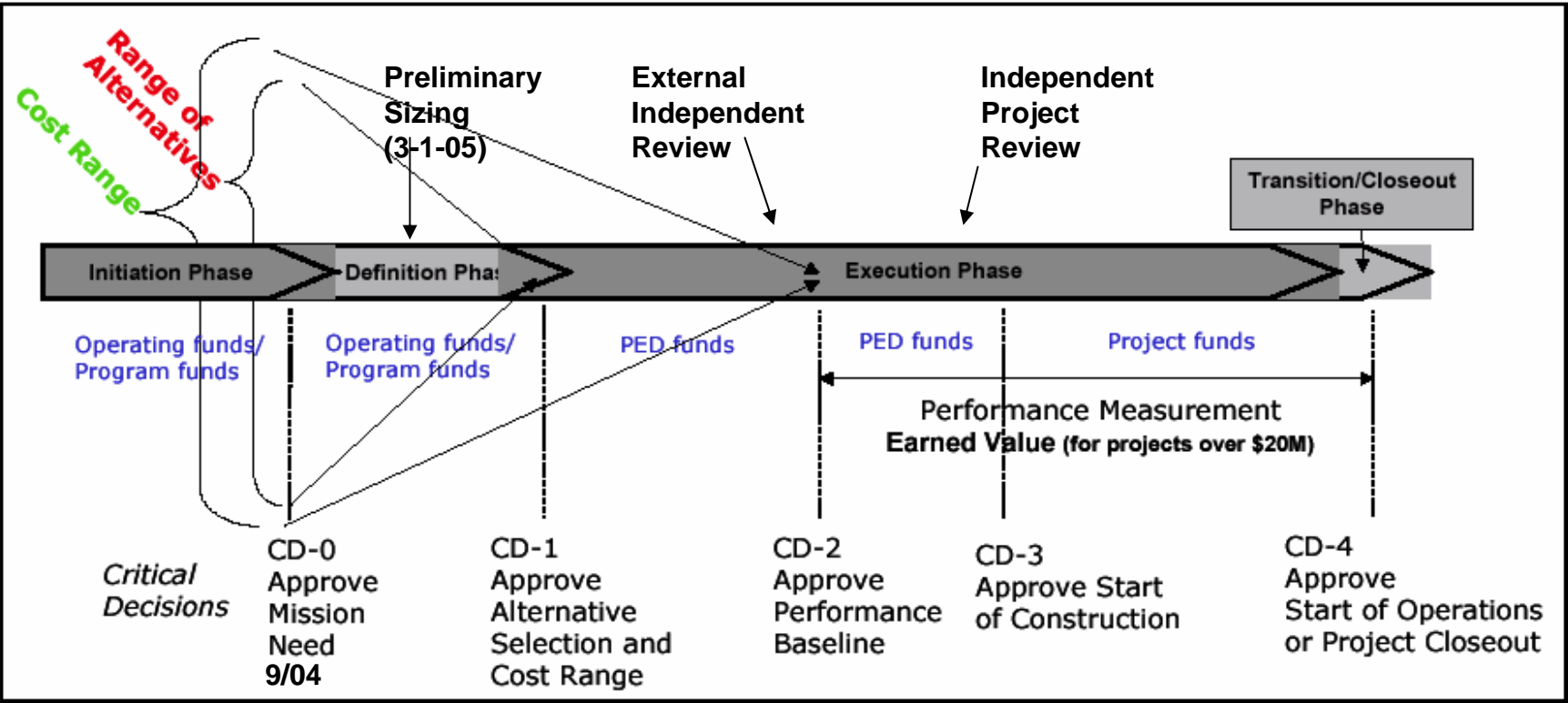
- **Physical Sciences Facility (\$210M)** – Integrates the physical sciences core capabilities (across all sponsors) and maximizes shared space in a 325K GSF structure.
- **Biological Sciences Facility (\$50M)** – Focused on systems biology capability and NMR. Located to provide synergistic support to the EMSL in a 90K GSF facility.
- **Layout of these facilities is based on maximizing synergy and promoting collaboration across research capabilities, rather than individual sponsor specific facilities.**
  - Improves efficiency of research operations.
  - Reduces cost by eliminating redundant supporting infrastructure.
  - A&E estimate of this savings exceeds \$23M.



PNNL Capability Replacement Laboratories Project

# Overall Schedule

Assumes construction funds come in FY 07



PNNL Project  
Timeline:

Oct 2004

June 2005

April 2006

March 2007

Sept 2009

We are here



# Aerial view of the PNNL Campus and the 300 Area



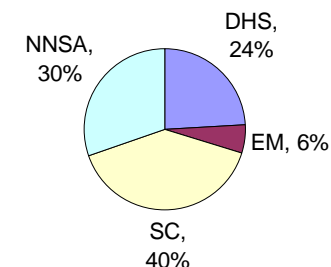
EMSL – Environmental Molecular Sciences Laboratory



# Space\*\* Needs for CRL (Preliminary)

<i>Capability</i>	<i>Existing 300 Area</i>	<i>CRL Conceptual</i>	<i>Percentage Change</i>
Systems Biology	21,730	28,200	30%
Environmental Biomarkers	12,800	12,800	0%
Ultra-Trace	19,760	20,800	5%
Subsurface Science	9,938	10,600	7%
Nuclear Magnetic Resonance	4,475	3,600	-20%
Materials S&T	19,337	15,230	-21%
Chemistry & Processing	29,615	21,500	-27%
Hot Cell and Support Space	8,651	6,330	-27%
Radiation Detection	26,780	25,800	-4%
Certification	8,546	11,350	33%
Information Analytics	2,710	15,700	479%
Dosimetry & Calibration	7,264	7,264	0%
Building Support	20,000	9,988	-50%
Machine Shop	18,692	13,000	-30%
Office Space	104,776	103,603	-1%
Other, Divested, Relocated	64,161		
<b>Total</b>	<b>379,235</b>	<b>305,765</b>	<b>-24%</b>

➤ **Overall footprint reduction of 24%**



**\*\*Based on net sf; double for gross sf**

Space by Major Sponsor